Symbol Name

Synonyms

Organism

SERPINA1 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase.

antitrypsin), member 1

A1A, A1AT, AAT, Alpha-1-Homo sapiens antiproteinase, alpha-1antitrypsin, Alpha-1-antitrypsin, Alpha-1 protease inhibitor, MGC23330, MGC9222, Pl, Pl1,

PRO2275

PRO0684, PRO2209.

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UniProt P01009.

Q86U18. Q9UCM3

IntAct

PDB Structure 2QUG, 3DRM OMIM

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NCBI Gene

NCBI RefSea NP 000286. NP 001002235

NM 001002236. NCBI RefSea NM 001127704 NCBI UniGene 5285

NCBI Accession ABG73380. CAA23755

Homologues of SERPINA1 ...

Definitions for SERPINA1 III ...

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On the other hand, elastases bound to > 2-16 ??? are protected against 2-17 inhibition but can free themselves by proteolysis and exhibit elastolytic activity. [1988]

Role of alpha-1-antichymotrypsin a deficiency in promoting cirrhosis in two siblings with heterozygous alpha-1antitrypsin deficiency phenotype SZ. [2002]

Patients with inflammatory arthropathies had significantly higher levels of inactivated alone 1AT @ (i alone 1AT @) and inactivated slopes 1ACT & (i alphe 1ACT &) in SF (as determined with monoclonal antibodies specific for the inactivated [i.e., proteolytically inactivated and/or complexed forms of these inhibitors) than patients with OA (P < 0.005), [1993]

These results suggest that if genetic varietion at the AACT & locus does influence the outcome of alpha 1 antitrypsin & deficiency, such variation is not in linkage diseasilibrium with the AACT > polymorphism reported here. [1988]

METHODS: We examined PMN-elastass a complexed with alpha 1-antitrypsin a (alpha 1-ATA), chymotrypsin, and alpha 2-macroglobulin by ELISA in faces and plasma. [1995]

RESULTS: Most PMN-elastese 🌣 was not complexed with alpha 1-AT 🖟, chymotrypsin, or alpha 2-macroglobulin in feces. whereas most plasma PMM-elastase was complexed with alpha 1-AT w. [1995]

In BAL there was preferential binding and inactivation of HNE & by the hamsters' alpha-1-protease inhibitor & (a-1-PL®) whereas PPE was preferentially bound by alpha-2-macroglobulin [?] (a-2-M [?]). [1988]

Inhibition of transferrin w binding by the acute-phase proteins alpha 1-AT and alpha 2-MG is competitive. [1993]

These acute-phase proteins were the protease inhibitors alpha 2-macroglobulin (alpha 2-M) and alpha 1-antitrypsin a (alpha 1-AT &) and the iron-binding proteins transferrin & (TF &) and factoferrin & (LF &). [1994]

aloba 1-Antitryosin (aloba 1-AT (a) is an acute phase plasma protein predominantly derived from the liver which inhibits

Alpha 1-Antitrypsin @ (alpha 1AT @) deficiency is characterized by insufficient amounts of alpha 1AT @ to protect the lower respiratory tract from neutrophil elastase , resulting in emphysema. [1989]

With this background, we hypothesized that homozygous inheritance of the Z-type may confer an added risk beyond a simple deficiency of alpha 1AT 3 by virtue of an inability of the Z-type alpha 1AT 3 molecule to inhibit neutrophil etastase 3 as effectively as the common M1-type molecule. [1987]

To evaluate this hypothesis, the functional status of alpha 1AT or from PiZZ individuals (n = 10) was compared with that of alpha 1AT @ from PiM1M1 individuals (n = 7) for its ability to inhibit neutrophil stastase @ (percent inhibition) as well as its association rate constant for neutrophil elastase (K association). [1987]

Using a model system that reproduced the relative amounts of alveolar macrophages and alpha 1AT of found in the epithelial

lining fluid of the lower respiratory tract, we observed that smokers' macrophages caused a 60 +/- 5% reduction in the ability of alpha 1AT 2 to inhibit neutrophil elastese 2 [1987]

Homozygous inheritance of the null bellingham alpha 1-antitrypsin (alpha 1AT) gene is associated with early-onset emphysems, resulting from the lack of alpha 1AT to protect the lung from neutrophil elastase . [1988]

The clones produced three mRNA transcripts (5.8, 4.8, and 2.4 kilobases) containing human alpha 1AT \$\tilde{a}\$ sequences, secreted an alpha 1AT \$\tilde{a}\$ molecule recognized by an anti-human alpha 1AT \$\tilde{a}\$ antibody, with the same moleculer mass (52 kba) as normal human alpha 1AT \$\tilde{a}\$ and that complexed with and inhibited human negationshi elastase \$\tilde{a}\$. [1987]

Evaluation of surface-stimulated neutrophils by [35S]methionine labeling and anti-alpha 1-AT\$\overline{\text{annunoprecipitation}} demonstrated increased secretion of alpha 1-AT\$\overline{\text{compared with that of resting neutrophils}}, with some of the secreted alpha 1-AT\$\overline{\text{compared with NE}\overline{\text{c}}, [1996]}

The immunologic №E & complex with alpha 1-protease inhibitor & (alpha 1-PI) was released significantly higher in the LAA (+) group than in the LAA(-) group (17.4 +/- 6.5 versus 1.8 +/- 0.6 micrograms/L, respectively, p < 0.05). [1995]

Plasma was analysed for neutrophil elastase ≥, interleukin (IL)-8 and neutrophil elastase ≥ in complex with alpha 1-protease inhibitor ≥ (alpha 1PI), [1996]

Reversible inhibition of neutrophil elastase 2 by thiol-modified alpha-1 protease inhibitor 2, [1991]

The "deficiency" group of alpha 1-antitrypsin (alpha 1AT(a)) alleles is characterized by alpha 1AT(a) genes that code for alpha 1AT(a) present in serum but in amounts insufficient to protect the lower respiratory tract from progressive destruction by its burden of neutrophit elegatises (A) [1986].

Thus, sarcoidosis (mostly lymphocytic) is associated with enhanced macrophage-derived proteolytic activity in BAL, while CVD patients both with and without lung disease have increased neutrophil counts and neutrophil elastase are complexed to alpha 1-protease inhibitor and oresumably inactive in BAL, 11990.

However, the alpha 1-AT \odot in these patients has a reduced ability to **associate** with and **inhibit** the action of neutrophil elastase \odot . [1992]

In these patients, neutrophil elastase appears to be inactivated by high levels of alpha 1-AT\(\infty\), thus preventing excess protease action. [1992]

The major function of A1AT is to inhibit neutrophil elastase is; A1AT is does so through an active site centered around Met358 contained within an external stressed loop on the surface of the molecule. [1988]

A major physiological role of AAT is to protect the lung from the destructive effects of excess uninhibited neutrophil elastase is. [2009]

Despite its lack of carbohydrates, the r alpha-1-AT a inhibited human neutrophil elastase with an association rate constant similar to that of p alpha-1-AT a. [1987]

Western blot analysis showed that this murine muscle-secreted human AAT (hAAT ঐ) formed a complex with human neutrophil elastase ঐ in a dose-dependent manner, [2006]

Most importantly, Arg358 alpha 1-antitrypsin & decreased the release of 1.11 +/- 0.16 micrograms/ml human neutrophil elastage & by 43% [1994]

Alpha 1-antitrypsin $\stackrel{>}{\sim}$ Pittsburgh (Met358-->Arg) inhibits the contact pathway of intrinsic coagulation and alters the release of human neutrophil elastase $\stackrel{>}{\sim}$ during simulated extracorporeal circulation. [1994]

alpha 1-Antitrypsin (alpha 1AT) is a highly pleomorphic 52-kDa serum glycoprotein that functions as the major inhibitor of neutrophit elastase (2. [1987]

AAT is formed a complex with neutrophil elastase is. [1994]

analysis, which was easily detected by polyclonal antibodies, [2008]

We suggest that stromelysin may potentiate the activity of neutrophil elastase is by proteolytically inactivating alpha 1AT [1991]

Coal workers had significantly elevated levels of neutrophil elestase $\hat{\omega}$ in BAL fluid **complexed** with alpha 1-antitrypsin $\hat{\omega}$ (P less than 0.01) and normal levels of alpha 1-antitrypsin $\hat{\omega}$. [1990]

Human neutrophil elastase of complexed to alpha 1-antitrypsin of was increased in the patient's plasma, while the levels of the complexes thrombin-antithrombinIII and plasmin-alpha 2-antiplasmin, indicating recent coagulation or libricolysis, respectively, were not elevated. (1989)

AAT & deficiency results in loss of protection in the lung against neutrophil elastase & (NE &) the major target for AAT & 11994

Incubation of 3H-rSLPI-BNE ocomplex with alpha 1-protease inhibitor of 3 hours at 37 degrees C decreased the amount of complex compared with incubation in the presence of boying serum albumin (70% vs 27% dissociated) [1990]

of complex compared with incubation in the presence of bovine serum albumin (70% vs 27% dissociated). [1990]

None of the monocional antibodies could detect 200 ng of free HNE & or HNE & in complex with AAT & by Western blot

Preferential inactivation of HNE ☑ by a-1-PI ⊇ may be one mechanism that accounts for the lesser emphysema-inducing potency of HNE ☑ than of PPE. [1988]

In conclusion, Fatona 1AT is is expressed in serum at low normal levels but is dysfunctional in its ability to inhibit HNE.

. [1996]

In addition to its direct elastolytic properties, this metalloelastase may also promote elastolysis by cleaving alpha t-antiproteinase of and thus protecting neutrophil elastase of from inhibition, [1991]

An ELISA for neutrophil elastase (FLA) in complex with alpha 1-protease inhibitor (PI) (alpha 1-antitrypsin (a) was developed in microtitre plates and compared to the ELISA kit from MERCK (2-h version), [1993]

Neutrophil elastase and its complex with alpha 1-antitryps in a soluble and insoluble fractions of nasal secretions of chronic strustits. [1991]

Immunoreactive neutrophil elastace (NEQ) and its complex with alpha 1-antitrypsin (AT) was measured by double antibody enzyme linked immunosorbent assay (ELISA) in nasal secretions of chronic sinusitis (CS). [1991]

antition of this implies that this form of A1AT i is **expressed** at normal levels in serum but is functionally impaired as an inhibitor of HRE □. [1997]

Multiple forms of alpha-1-antiproteinase ৯ in the rabbit plasma implicate the unknown functions other than the inhibition of neutroptifi elastase 🖟 [1998]

3. In normal conditions, alpha 1-antitrypsin இ protects the lungs from destruction by the proteolytic neutrophil elastase இ. [1993]

1. alpha 1-antitrypsin is an antiprotease that **inhibits** the neutrophil elastase is enzyme, and belongs to a family of structurally related serine proteinase inhibitors (serpins). [1993]

METHOD: Alpha-1-antitrypsia of from a female patient aged 75 years with the rare genotype PLowell NullBellingham was studied for its ability to inhibit human neutrophil elastase of in a time dependent manner. [1995]

Emphysema is caused by the protease-antiprotease imbalance when smoking-induced release of neutrophil elestase $\hat{\omega}$ in the lung is inadequately **inhibited** by the deficient levels of AAT $\hat{\omega}$, the major inhibitor of neutrophil elastase $\hat{\omega}$. [2005]

alpha 1-Antitrypsin is a circulating serine proteinase inhibitor that protects the lungs against proteolysis by the enzyme neutrophil elastase ii. [1993]

Neutrophil elastase

and its complex with alpha 1-artitrypsin

in the pathogenesis of chronic suppurative otitis media. [1992]

Neutrophil elastase

(NE →) and its complex with alpha 1-antitrypsin

were quantified in ear discharges from 15 patients with chronic suppurative oftis media (CSOM), and their levels were compared to those in middle ear effusions from 10 pediatric patients with chronic oftis media with effusion (OME), [1992]

We also discuss the current literature on biosynthesis of alpha 1-AT and how its synthesis may be tightly regulated by the net balance of neutrophil elastase and alpha 1-AT at sites of inflammation/tissue injury. [1989]

Oxidant species produced by human polymorphonuclear leukocytes (PMN) inactivate alpha-1-protease inhibitor is and thus may indirectly enhance neutrophil stastase induced proteolysis. [1987]

These results demonstrate that all of the detectable immunoreactive pancreatic elastase 2 \diamondsuit in normal human plasma is proelastase 2 **bound** to alpha 1-profease inhibitor \diamondsuit . [1980]

The alpha 1-protease inhibitor **bound* immunoreactive stastage 2 ** has been dissociated by incubation with hydroxylamine, and the resulting immunoreactive product isolated by get filtration on Sephadex G-100. [1980]

A peak of immunoreactive pancreatic <u>elastase 2.22</u> with a molecular weight consistent with that of a **complex** of <u>elastase 2.22</u> and alpha 1-protease inhibitor 22 (also referred to as alpha 1-antitrypsis 22) can be detected by radioimmunoassay in normal human serum or olsams (Geokas et al. J. Biol. Chem. 252:61-67, 1977). I 1980!

We have constructed plasmid DNA vectors that contain Epstein-Barr virus (EBY) sequences and the human gene (SERPINA1 (2) encoding alpha1-Antitrypsin [?] (AAT [?] (2)). [2001]

The acute-phase protein alpha 1-antitrypsin ≥ inhibits growth and proliferation of human early erythroid progenitor cells (burst-forming units-erythroid) and of human erythroleukemic cells (K562) in vitro by interfering with transferrin ≥ iron uptake. [1994]

We have previously shown that the hepatic acute-phase protein alpha 1-antitrypsin & (alpha 1-AT &) inhibits transferrin & (tf &) binding to its receptor (tfR) of human placental membranes. [1994]

The acute-phase protein alpha 1-antitrypsin (alpha 1-AT (a)) has been shown to inhibit the binding of transferrin (a) to its cell-surface receptor. [1996]

There was a significant correlation between clearance of alpha 1-antitrypsin $\hat{\omega}$ and serum levels of retinot-binding protein and transferrin $\hat{\omega}$ in patients with ulcerative colitis and with retinot-binding protein in patients with Croha's disease. [1991]

Clearance of alpha 1-antitrypsin in reflects disease activity in inflammatory bowel disease and correlates with serum levels of rapid-turnover proteins such as retinal-binding protein and transferrin in, which are markers for the presence of protein-caloric maintutrition. [1991]

Laboratory tests for fecal alpha 1-antitrypsin 2 and an indium III-labeled plasma transferrin 2 nuclear scan revealed a protein-losing enterposity. [1994]

The acute-phase protein alpha 1-antitrypsin 🌣 (alpha 1-AT 🏖) completely inhibits binding of diferric 🏗 to TfRs on human

skin @broblests in a dose-dependent fashion, [1998]

The protein C inhibitor a gene spanned about 13 kilobase pairs and consisted of 5 exons and 4 introns as do the genes for human alpha 1-antitryps in 3, alpha 1-antitryps in 3

The major physiological role of the serine protesse inhibitor alpha 1-antitrypsin (alpha 1-AT) is to protect elastic fibers in the lung from excessive hydrofysis by neutrophil elastase . [1988]

Secretory leukoprotease inhibitor (SLP) in and alpha 1-protease inhibitor inhibitor (SLP) in an alpha 1-protease inhibitor inhibitor (SLP) in an alpha 1-protease inhibitor inhi

Spartum NE Q/AAT Q complex and MPQ levels were lower on rAAT compared to placebo. [2006]

The in vitro effects of the Pseudomonas aeruginosa-derived phenazine pigments pyocyanin and 1-hydroxyphenazine (1-hp) on neutrophile leastase \hat{x} release and myetoperoxidase-induced inactivation of alpha-1-protease inhibitor \hat{x} (alpha 1-PI) were investigated. [1992]

Alpha-1-antitrypsin is inhibits a variety of proteases but its primary target is neutrophil elastase is, an extracellular endopeptidase capable of degrading most protein components of the extracellular matrix. (2006)

A recombinant fusion protein was constructed consisting of an antihuman ptqR [?] single-chain Fv (scFv) antibody linked to human alpha(1)-antitrypsin (A1AT%), an inhibitor of NE ... [1999]

Polymers of Z alpha 1-antitrypsin © accumulate within hepatocytes to form inclusion bodies that are associated with juvenile cirrhosis and hepatocellular carcinoma. [2000]

We postulated that increased Cathepsin B [?]

and MMP-2

in acute and chronic lung diseases are due to the presence of high levels of extracellular NE [?]

and that expression of these proteases could be inhibited by A1AT

augmentation therapy. [2008]

Short-term variability of biomarkers of proteinase activity in patients with emphysema associated with type Z alpha-1-antitrypsin 2 deficiency. [2005]

Activation of IRP by alpha 1-AT \square is associated with a marked increase in transferring receptor \square (trf-rec) mRNA levels in K562 and enhanced cell-surface expression of transferring \square -binding sites, whereas ferritin production is decreased, although ferritin mRNA levels remain unchanged. [1996]

BACKGROUND: Severe alpha1-antitrypsin (AAT a) deficiency associated with low AAT blood concentrations is an established genetic COPD risk factor. [2008]

Thirty-nine stable cystic fibrosis (CE3) patients (10 with Bc) were enrolled in a study to determine the effect of alpha-1-antitrypsin 3 on airways inflammation. [2007]

These results indicate that this AAT are chancer polymorphism is associated with better pulmonary prognosis in CE. [2001] To investigate the mechanism(s) by which alpha 1-AT are may be inactivated in CE airway secretions, sputum samples were obtained from nine patients during respiratory onlysisteriors, valoria 1-AT are was measured by radial immunodiffusion. [1989]

Within-subject variation of elastase/alpha 1-protease inhibitor a complexes and lactoferm in plasma. [1993]

Within-subject variation of elastase/alpha 1-protease inhibitor of complexes and lactoferrin over a short time was studied in six young men who had blood samples drawn every 4 h over 2 days. [1993]

From within-subject variation, between-subject variation and analytical variation, indices of individuality were calculated as 1.1 and 1.8 for elastase/alpha 1-protease inhibitor complexes and lactoferrin, respectively. [1993]

Dot blot analysis of the polymerase chain-reaction-amplified DNA derived from the proband and other family members showed both mutations to be associated with an alpha 1-AT at deficiency phenotype. [1990]

The human alpha-1-antitrypsin & (AAT &) gene encodes the major serine protease inhibitor in plasma. [1990]

An anti-etasiase a activity assay showed that murine muscle-secreted hAAT inhibited elastase with equal capacity as hAAT in purified from plasma. [2006]

The alpha1-AT \$\tilde{P}\$12 \$\tilde{\tilde{a}}\$ deficient mouse will be a useful animal model for elucidating the **function** of alpha1-AT \$\tilde{\tilde{b}}\$ in letal development, studying the mechanisms of chronic inflammatory disease and evaluating therapeutic candidates for the treatment of inflammatory disease. [2004]

Size fractionation of CM from activated monocytes by fast protein liquid chromatography indicated that SAA [3] iii- and CRP ii-inducing activity eluted as a single peak with a Mr of approximately 18 kDa. alpha 1-Antitrypsin iii, which also failed to respond to iii-1 beta or TNF alpha ii, was included by both CM and medium from COLO-16 cells. [1988]

TNF-alpha [?] A-induced activation of proMMP-9 by the explants of human skin was inhibited by alpha-ACT but not by related alpha-1-antitrypsin [?] A alpha-ACT specifically attenuated maturation of proMMP-9 but not proMMP-2 or proMMP-13. [2008]

We have previously observed that mice exposed to cigarette smoke and treated with exogenous alpha(1)-antitypsin (A1AT 2) were protected against the development of emphysema and against smoke-induced increases in serum TNF-alpha [?]

2007]

The data suggest oxidative inactivation of alpha 1-protease inhibitor is by secreted myeloperoxidase is and hydrogen peroxide. [1983]

The possible significance of A1AT production of monocytes and macrophages may be the local control of granulocytic professes such as elastase and catheresis G. [1992]

TGF-betat \hat{w} expression in the alveolar wall was higher in patients with smoking-associated emphysema than in cases with AAT \hat{w} -deficiency emphysema (p < or = 0.05). [2005]

A1AT \(\times \) partially inactivated the serioe protease \(\times \) activity in GC frass, while GC frass cleaved A1AT \(\times \) in a dose- and time-dependent manner. [2007]

A human serpin atpha 1-antitrypsin a variant was engineered to specifically inhibit furin . [1995]

Furin was specifically inhibited by alpha 1-antitrypsin @ Pittsburgh (358 Met-->Arg), (K1/2 = 3 microM) but not by 50 microM normal antitrypsin M or by antithrombin, however, antithrombin/happaris was a good inhibitor (K1/2 = 9 microM), [1994]

We conclude from this study that in vivo C11m1 & is the predominant inhibitor of FXIa, but that FXIa-a1AT & complexes due to their relatively long t 1/2 may be the best parameter to assess FXI activation in clinical samples. [1996]

RESULTS: MMP-3 in and -9 inactivated AAT in vitro. [2007]

We show that pseudomonas elastase inactivates monocyte-derived alpha 1-AT

by limited proteolysis but, in so doing, alpha 1-AT

becomes recognized by the sexplate

enzyme complex receptor and mediates an increase in de novo synthesis of alpha 1-AT

in these cells, [1991]

AAT 🌣 Deficiency affects at least 120.5 million carriers and deficient subjects worldwide for the two most prevalent deficiency alleles P4S 📦 and PIZ. [2005]

In contrast, alpha 1-AT : produces only minor changes in IRP activity, and subsequently in trf-rec expression and ferritin synthesis in THP-1 cells. [1996]

Here we demonstrate that in human erythroleukaemic colls (KS62) alpha 1-AT > enhances the binding affinity of iron-regulatory protein (IRP), the central regulator of cellular iron metabolism, to iron-responsive elements, [1996]

Due to this long t1/2, FXIa-a1AT a complexes were predicted to show the highest levels in plasma samples from patients with activation of FXI. [1996]

Oncostatin M induced alpha1-antitrypsin (AAT i) gene expression in Hep G2 cells is mediated by a 3' enhancer. [2002]

The acute-phase protein alpha 1-antitrypsin 🏖 inhibits transferrin-receptor 🕸 binding and proliferation of human skin (fibroblasts. [1998]

Thus, A1AT\$\(\text{linked} \) to an antihuman plgR [?] scFv was delivered in receptor-specific fashion from the basolateral to apical surface and was released as an active antiprotease, indicating that it is feasible to deliver therapeutic proteins to the apical surface of epithelia by targeting the plan [?]. [1999]

The role of AAT & in CVD has not been definitively assessed and its effect on longevity has not yet fully been studied. [2007]

Growth hormone regulates the hepatic mRNA levels of alpha 1-antitrypsin and two contrapsin-like mRNAs in the rat. [1989]

Intramuscular administration of 1 x 10(11) DBE [?] per animal of rHSV-produced rAAV1/AAT
and rAAV9/AAT resulted in hAAT [?] ≈ protein expression of 5.4 x 10(4) and 9.4 x 10(5) ng ml(-1) serum respectively, the latter being clinically relevant. [2009]

Matrix metalloprotease polymorphisms are associated with gas transfer in alpha 1 antitrypsin 2 deficiency. [2009]

The inflammatory markers C-reactive protein, white blood celf count, serum <u>lactoferrin</u>, neutrophil elastese 3/elpha 1-antitrypsin complex, and tumour necrosis factor alpha were measured at the start and end of each antibiotic course. [1994]

Neutrophil elastase 畲 (NE 衛), neutrophil elastase 鞏/AAT ঐ complexes (sNEC), interteukin-3 鞏 (it_6 鞏), TNF-receptor 1.② (sTNFr), and myeloperoxidase 逊 (知已 逊) were measured in aputum and urinary desmosine concentration determined. [2007]

The hepatic acute-phase proteins alpha 1-antitrypsin a and alpha 2-macroglobulin inhibit binding of transferrin to its receptor. [1993]

However, the inhibitor profile obtained with alpha 1-antiproteinase à inhibitor, alpha 1-antichymotrypsin à, and alpha 2-macroglobulin suggested membrane-bound forms of elastase and cathepsin G ⊋ were mediating, in large part, the proteolysis observed. (1995)

The bactericidal effects of cathepsin G

against Capnocytophaga sputigena and A. actinomycetemcomitans were inhibited by alpha-1-antichymotrypsin

and a

The results were as follows: (1) No significant differences were seen between patients with PMD and **control** subjects with respect to either alpha 1-antitrypsin 3 or alpha 2-macroglobulin and inter-albha-tryosin inhibitors. [1985]

Unexpectedly, the nucleotide sequence of TBG $\hat{\omega}$ is closely homologous to those **encoding** the plasma serine antiproteases alpha 1-antitrypsin $\hat{\omega}$ and alpha 1-antitrypsin $\hat{\omega}$. [1986]

These data suggest an unexpected role for serpinal and serpinas in regulating the bone marrow hematopoietic microenvironment as well as influencing the migratory behavior of hematopoietic precursors. [2005]

The results suggest that the low adhesiveness of BHK cells and leucocytes on plain polystyrene in sera-containing media is due both to the low binding of sbronectin at and to the binding of serum albumin, alpha-1-antitrypsin at and alpha-2-macroslobulis at 11984

The structure and organization of the kallistatin $\hat{\omega}$ gene are similar to those of the genes **encoding** alpha t-antitryosin $\hat{\omega}$, protein C inhibitor $\hat{\omega}$, and alpha t-antitryosin $\hat{\omega}$. [1994]

Serine protease 2 inhibitors serpinal 2 and serpina3 2 are down-regulated in bone marrow during hematopoletic progenitor mobilization. [2005]

CONCLUSIONS: Because AAT

and SLC11A1

proteins directly or indirectly function as inhibitors of human faukocyte elastase

multiple indirectly functions in the AAT

and SLC11A1

penes may change the balance between elastase produced by leukocytes during phagocytosis. [2008]

Addition of A1AT \$\times\$ to pneumonia BAL greatly reduced NE [?] \$\times\$-induced cathepsin B [?] \$\times\$ and NMP-2 \$\times\$ expression in macrophages in vitro. [2008]

When neutrophil elastase & is already attached to the elastin & fibres the smaller molecules SLPI and elatin appear to be better inhibitors of this enzyme than larger inhibitors such as A1AT & and HEI. [1997]

The NS1 ⊋-bound PR3 © was active and was cleared from the surface by alpha-1-protease inhibitor ⊋. [2008]

After stimulation with oncostatin 結合 (OS除命), interleukin-6 (it.-6 之) or tumor necrotic factor alpha (TNF alpha 全), hAE cells increased the expression of AAT 之, while the expression of 随程享命 was reduced by OS除命 and induced by TNF alpha 全, [2009]

Here we report that gp78 \(\frac{1}{2}\), a ubiquitin ligase (E3) pairing with mammalian \(\frac{1}{2}\) for ERAD, ubiquitinates and facilitates degradation of ATZ, the classic deficiency variant of AAT \(\frac{1}{2}\) having a Z mutation (Glu 342 Lys). [2006]

Silencing SVIP & expression markedly enhances the formation of gc78 & p97 MVCP-Derlin1 complex, which correlates with increased degradation of CD3delta and misfolded Z variant of alpha-1-antitrypsin &, established substrates of gc78 & [2007]

The aim of this study was to determine the role of genetic variants of the main serum antiproteinases alpha-1-antitrypsin is (AAT is) and alpha-2-macroglobulin is (A2M is) for the course of chronic pancrealitis. [2002]

The Mr-96,000 complex did not react with antibodies to AT III or to alpha 1-antitrypsin 🔾, and it was detected in normal quantities after incubating 1251-thrombin with plasma immunodepleted of AT III, alpha 2-antiplasmin, alpha 2-macroglobulin, C5 inactivator, alpha 1-anti-hymotrypsin 🔾 or inter-alpha-trypsin inhibitor. [1981]

These findings suggest that the net lung protease-antiprotease balance in ARDS is shifted largely in favor of the antiproteases (chiefly A1AT @), and that the antiproteases, A1AT @ and A2MG, have similar affinities for neutrophil elastase @ in vivo. 119881

The proteolytic inhibiting activity, in spite of the presence of immunoreactive inhibitors (n = 18). alpha 1-antichymotrypsin
had a precipitate pattern similar to group 1, whereas alpha 1-antitrypsin
had a major fraction with slightly retarded mobility and two minor peaks in the slight 1-and beta-regions, [1982]

There was no significant effect of cystatin and natural plasma proteinase inhibitors alpha 1-antitrypsin 2, alpha 2-macroglobulin and antithrombin-III/heparin, on the activity of the CP. [1994]

The serum levels of alpha 2-macroglobulin (alpha 2-MG), alpha 1-antitrypsin (alpha 1-AT), ceruloplasmin (CER), transferrin (TRSE) and alpha 1-acid glycoprotein (alpha 1-aciGL) were within the normal range. [1995]

Increased levels of serum alpha 1-antitryosin (2), alpha 2-macroglobulin, haptoglobin (2), ceruloplasmin, and thyroxine-binding globulin were observed in both series of patients when compared to their respective controls. [1996]

We studied secretory leukocyte protease inhibitor \hat{x} (not previously addressed), and slipha 1-antitrypsin \hat{x} , slipha 1-antitrypsin \hat{x} , slipha 2-macroglobulin and elastase. [1992]

No immunologic relationship was confirmed between the inhibitor and other well-known plasma inhibitors such as alpha tantitrypsin 2, alpha 2-macroglobulin 2, alpha 1-antichymotrypsin 2, antithrombin III, C1-in-activator, and alpha 2plasmin inhibitor 2, 1985.

HSF-II stimulates cysteine protease inhibitor, alpha 1-antichymotrypsin $\hat{\omega}$, alpha 1-antitrypsin $\hat{\omega}$, fibrinogen, and hemopexin [?], and acts synergistically with dexamethasone to stimulate alpha 2-macroglobulin [?]. [1987]

Furthermore, thK2 is formed molecular complexes with alpha 2-antiplasmin, alpha 3-antichymotrypsin is, antithrombin III and alpha 2-macroglobulin is but not with alpha 1-antitrypsin is, [1997]

Immunohistochemically, alpha-tetoprotein (AFP), alpha-1-antitrypsin 3, alpha-1-antichymotrypsin 3, fibrinogen and ferritin were all negative. [1996]

While 19/33 HCC were positive for A1AT . all 33 HCC contained immunoreactive A1AChy . [1984]

The most widely recognized candidate gene in COPD is SERPINA1 3, although it has been suggested that SERPINA3 3 may also play a role. [2006]

Most tumour cells, however, expressed vimentin 3, whereas a granular cytoplasmic immunoreactivity for alpha-1-antitrypsin

antitrypsin and alpha-1-antichymotrypsin was shown in the giant cells. [1987]

Within 5 days after the onset of acute pancreatitis, the accuracy rates for detecting necrotizing pancreatitis were 86%, 84%, 82%, 72%, and 69%, using cutoff levels of 120 mg/L for CRP 2, 120 micrograms/L for PMN-elastase 2, 270 U/L for LDH, 1.5 g/L for alpha 2-M 3, and 3.5 g/L for alpha 1-AT 3, respectively, [1991]

RESULTS: High molecular mass protease inhibitors (alpha 1 protease inhibitors), alpha 2 macroglobulin, and soya bean trypsin inhibitor) and synayual fluid from patients with rheumatoid arthritis were effective in blocking proteoglycan loss from sections treated with free elastase, but their activity towards cartillage bound elastase was much reduced. [1996]

Human hepatocytes synthesized albumin, transferrin ≨, fibrinogen, alpha 1-antitrypsin ≩, alpha 1-antitrypsin à, and excreted them to the culture medium. [1980]

Notably, we demonstrate significant regulation of alpha-1-antitrypsin , aipha-2-macroglobulin , hemoglobin subunit alpha, vitamin D-binding protein, major urinary proteins, and transthyretin [?] (up to eight-fold) in serum of lung tumor bearing mice. [2007]

The syncytiotrophoblast was immunonegative in the majority of cases, especially for albumin, whereas the cytotrophoblast showed a positive (although variable) reaction to A1AT &, A1AC &, albumin, IgG and prosonuscoid antibodies. [1986]

Levels of both i alpha 1AT & and i alpha 1ACT & correlated significantly with factolers and elastase levels. [1993]

Histochemically the tumor contained argyrophilic cells as well as cells that reacted positively with the antibodies to alpha-t-antitrypoin 2, alpha-1-antichymotrypoin 2, carcinoembryonic antigen and lysozyme. [1983]

Polyclonal antisera to alpha 1-antitrypsin & alpha 1-antichymotrypsin & alpha 2-antiplasmin, inter-alpha-trypsin inhibitor, plasminagen & activator inhibitors-1 and -2, and a monoclonal antibody to protease nexin-1 did not label the 33-, 31-, and 27-kba inhibitors, [1995]

The absence of desmosomes, tonofibrillar bundles, and keratin and the presence of alpha-1-antitrypsin and alpha-1-antitrypsin for fibrohisticcytic differentiation of the spindle cell component, [1987]

Immune reactions elicited in the sera of individuals exposed to nickel and cobalt were assessed by changes in the concentration of serum immunoglobulins IgG, IgA and IgM and serum proteins alpha 2 macroglobulin (A2M), transferrin
(TRF ₄), alpha 1-antitrypsin ⅔ (A1AT ⅙), ceruloplasmin (OPL) and Iysozyme (LYS). [1983]

We conclude that plasma PMN etestase ≥ level may be a more specific and sensitive inflammatory marker than alpha-1 antitrypsin ⇒, alpha-2 macroglobulin, ESR, and may be a good marker for diagnosis and follow up of the disease activity of the psoriatic patients, 11991.

We studied, by electrophoretic techniques, the physiochemical properties of 4 glycoproteins, alpha 1-antitrypsin ŵ, alpha 1-antitrypsin ŵ, alpha 1-21-acid glycoprotein and transferrin ŵ synthesized by three different human hepatoma cell lines. [1985]

Presence, activities, and molecular forms of cathensin G (2), elastase, alpha 1-antitrypsin (2), and alpha 1-antitrypsin (3) in bronchiectasis. [1995]

In Hep 3B cells, TGF-beta led to increased secretion of the positive acute-phase proteins alpha 1-protease inhibitor is and alpha 1-antichymotrypsin is and decreased secretion of the negative acute-phase protein albumin. [1990]

1H n.m.r. showed that polypeptide amide 1H-2H exchange was greater in the native forms of alpha 1-AT\(\tilde{x}\), alpha 1-ACT\(\tilde{x}\) and C1-INH than in their cleaved forms, whereas for ovalbumin it was unchanged. [1992]

Also, all tumors displayed at least one of the three proteolytic enzymes assessed in this study (AAT &, AACT &, and CB), demonstrating the relative diagnostic nonspecificity of these determinants. [1988]

The demonstration of stypical histocytic cells in the CSF and the immunohistochemical demonstration of lysozyme, alpha 1antitrypsin 2 and alpha 1-antichymotrypsin 2 which are typical for histocytes, underline the histocytic origin of the tumor. [1987]

We found that serpina1 ♀ and serpina3 ♀ were transcribed in the bone marrow by many different hematopoletic cell populations and that a strong reduction in expression occurred both at the protein and mRNA levels during mobilization induced by granulacyte colony-stimulating factor or chemotherapy. [2005]

병LS2 과 is about 25-28% homologous to three human members of the plasma protease inhibitor family: antithrombin III, alpha 1-antitrypsin 과 and alpha 1-antitrypsin 과 and alpha 1-antitrypsin 과 [1986]

We have used probes from the human genes PI, Pii., and AACT (alpha 1-antitrypsin , alpha 1-antitrypsin ... related sequence, and alpha 1-antitrypsin (1990) to make a pulsed-field map of the surrounding region of 14q31-32. [1990]

In this paper we show that the appearance of methionine in NCA \cong is due to regularly copurified materials, which were immunologically identified as alpha-1-antitrypsin \cong and alpha-1-antitrypsin \cong like proteins. [1984]

Paraffin sections from patients of DCM and normal hearts were also stained with a panel of antisera against LCA, and macrophage markers namely, lysozyme, alpha-t-antitrypsin (AAT 3) and alpha-t-antichymotrypsin (ACT). [1995]

The observation of a more aggressive behaviour in the two cases characterized by the absence of immunoreactivity for both A1ACT $\frac{1}{2}$ and A1AT $\frac{1}{2}$ suggests that the presence or absence of protease inhibitors could play a role in controlling tumour progression in PTC. [1998] The results indicate that binding of human C5a to CD88 on HepG2 cells resulted in an increased production of alpha 1-antitryps in 3- and alpha 1-antichymotryps in 3-specific mRNA as assayed by RT-PCR. [1995]

To clarify these features, seven aneurysmal bone cysts were studied electron microscopically and immunocytochemically with endothelial (Factor VIII-related antipen, monoclonal endothelial marker) and histiocytic (alpha 1-antitrypsin 2, alpha 1-antitrypsin 3, alpha 1-antitryp

The concentrations of IgG, IgA, IgM, Clq, C3c, C4, C9, C3A, Albumin, Transferrin 4, Alpha-1-antitrypsin 4, Alpha-2-macroglobulin were determined in the serum, aortic atherosclerotic intima and media of 8 patients. 11985

All groups except that termed "meningifts" had similar alpha 2-m levels, but alpha 1-at 🌣 and transferrin 🖒 were significantly depressed in MS. [1979]

The proteins included IgA, IgG, IgM, B1C (C3), alpha 1-antitrypsin ☑, alpha 2-mecroglobulin, fibrinogen, albumin, LDL, HDL, alpha 1-acid glycoprotein, beta 2-glycoprotein, transferrin ☑ and ceruloplasmin. [1979]

The proteins identified in bladder washouts include albumin, transferrin \(\delta\), IgG gamma-heavy chain, Gc-globulin \(\delta\), alpha 1-antitrypsin \(\del

Compared with PMN-elastase ŵ or IL-6 ŵ, increased plasma concentrations of such acute-phase proteins as alpha-1antitrypsin ŵ or CRP ŵ, and consumption of the protease inhibitor alpha-2-macroglobulin ŵ, are later events that can be detected only 1 to 4 days later. [1993]

The deduced amino acid acquence shows moderate homology to human alpha 1-antitrypsin & (38%), guinea pig contrapsin (35%), human alpha 1-antitrypsin & (34%), and human proteinase C inhibitor (31%), all members of the serine proteinase inhibitor (serin) family, [1995]

Immunohistochemically, the tumor cells were positive for vimentin, CD68 2, alpha-1-antichymotrypsin 2 and alpha-1-antitrypsin 2 (2005)

Occasional positivity was noted with factor XIIIa and <u>alpha-1-antichymotrypsin</u>, whereas no reactivity occurred with alpha-1-antitrypsin 2, actin, or S-180 f71 protein. [1998]

Erythrocyte sedimentation rate (ESR), C-reactive protein (CRP), immunoglobulin A, G and M, and complements C3 and C4, interferon-gamma, interleukin-4% and alpha-1-antitrypsin (ART), alpha-2-macroglobulin , ceruloplasmin, hastoglobin , and transferrin were measured. (2007)

Immunochemistry expressed alpha-1-antitrypsin \Im , alpha-1-antichymotrypsin \Im , vimentin \Im , and focal neuron-specific enclase \Im . [2005]

Immunolocalization of vimentin and dearnin intermediate filament proteins and of alpha-1-antitrypsin and alpha-1-antitrypsin antitrypsin and alpha-1-antitrypsin antitrypsin a

We studied the role of proteinase inhibitors (Pls) alpha 1-antitrypsin and alpha 1-antichymotrypsin in relation to lysozyme (LZM), and membrane attack complex (C5b-9) in renal tubular damage by immunohistochemical techniques. [1993] Carcinoembryonic anticen, beta 2-microolobulin, alpha 1-antitrypsin or alpha 1-antichymotrypsin were detected in

some of the eluates of the malignant tissues only. [1979]
Alveolar macrophage function was studied immunocytochemically using three monoclonal antibodies—macrophage CD 88 KP
1 (M), protein CD 11C (P), and anti-elastin (EL)—and three polyclonal antibodies—lysozyme (LZ), alpha-1-antitryosin &

(AAT 🌣), and alpha-1-antichymotrypsin 🔄 (AACT 🌣). [1995]
An immunohistochemical analysis using antibodies to cytokeratin, epithetial membrane antigen, alpha-1-antitrypsin ኌ, alpha-1-antitrypsin ኌ, and factor XIIIa was performed in four cases of malignant fibrous histiocytome and five cases

of sarcomatoid carcinoma in the uninary tract. [1991]
Immunohistochemically, the turnor cells were positive for CAM5.2, cytokeratin (CK) 7, CK 20, trypsin, lipase, atpha-1antitryosin ¼. and atoha-1-antichymotryosin ¼. [2002]

Histologic hallmarks of solid and cystic neoplasms were papillary growth, large intracytoplasmic granules, and immunoreactivity with alpha 1-antitrypsin a, alpha 1-antitrypsin a, alpha 1-antitrypsin a, phospholipase A2, and neuroendocrine markers (neuron-specific enolates NSEL synaptophysiol, 11991).

The kass. values for the other serpins tested (protease nexin I, protein C inhibitor), and mutants of alpha 1-astichymotrypsin is and alpha 1-antitrypsin \(\frac{1}{2} \) with P1 arginine residues) were at least 1000-fold higher, with P1-Arg-alpha 1-antitrypsin (kass. = 7 x 10/4) M-1 s-1) being the most effective inhibitor, (1993)

In patients with extrarenal disease, the inflammatory plasma protein response was often pronounced during exacerbation, as evidenced by marketly increased concentrations of C-reactive protein (CBP [?]), alpha 1-antichymotrypsin 2, alpha 1-antichymotrypsin 2, alpha 1-antichymotrypsin 2, alpha 1-antichymotrypsin 3, alpha 1-antichymotrypsi

The second-order inhibition rate constants k2/Ki* were 4300, 700, and 52 k-1 5-1 for alpha 1-antichymotrypsin 3, alpha 1-antichymotrypsin 3, alpha 1-antichymotrypsin 3, and eglin c, respectively, indicating that, if hepsaris is present in vivo, the two former physiological inhibitors will be unable to prevent cathersis G 3-mediated proteolysis. [1994]

The repin is substrate angiotensinogen (AGT is) belongs to a supergene family of proteins that also includes alpha 1-antitrypsin is (AAT is) and alpha 1-antichymotrypsin is (ACT), acute-phase reactants with known serine proteinase inhibitory (serpin) function. [1992]

Immunohistochemically, atpha 1-antitrypsin ⊇- and alpha 1-antichymotrypsin ⊇-positive reactions were diffusely positive in most of the tumor cells, while staining for chromogranin, neuron-specific enclase, Grimelius, glucagon, insulin, and alpha-fetoprotein was negative in the tumor cells. (2000)

Corticosteroid-binding globulin (CBG) belongs to the superfamily of serine proteinase inhibitors which include alpha 1-antitrypsin 2, alpha 1-antitrypsin 2, and T4-binding globulin. [1993]

In this study, we describe the effect of leukemia inhibitory factor (LIF □), interferon gamma (INF gamma) and dexamethasone (dex) on production of alpha 1-protease inhibitor □ (PI) and alpha 3-antichymotrypsin □ (ACT) and on glycosylation of PI in the human hepatoma cell line HepG2. [1993]

RCA-1 [7] stained microglia and hemosiderin whereas antisera to alpha 1-antitrypsin \Im and alpha 1-antichymotrypsin \Im only reacted with iron-depleted granules. [1988]

All cases were stained with periodic acid-Schiff with and without diastase and for alpha 1-antitrypsin \$\frac{1}{2}\$, myoglobin, keratin \$\frac{1}{2}\$, muscle-specific actin, and alpha 1-antichymotrypsin \$\frac{1}{2}\$, by using the avidin-biotin-immunoperoxidase method. [193]

Neutralization of excess NE & by delivering supplemental alpha 1-antitrypsin a to the airways via aerosolization represents an exciting new potential therapy for CF lung disease. [1996]

The immunohistochemical panel included viscentin &, various molecular weight keratins, epithelial membrane antigen (EMA), desmin &, alpha-1-antitrypsin &, and alpha-1-antitrypsin &. [1993]

A1AT is the principal inhibitor of neutrophit eleastase is such that a deficiency of A1AT is results in insufficient antieleastase is noticed in the lower respiratory tract, thus allowing neutrophit eleastase is to destroy alveolar structures. [1988] RESULTS: All the tumors were CD19, vimentin is, alpha-1-antitrypsin is and alpha-1-antitrymotrypsin is diffusely positive (50% or more of the tumor cells staining) and CD56 is showed focal positivity in all cases with 5-10% of tumor cells displaying

immunolabeling. [2007]
Localization of CEA [?] \$\tilde{\chi}\$, HCG \$\tilde{\chi}\$, lysozyme, alpha-1-antitrypsin \$\tilde{\chi}\$, and alpha-1-antichymotrypsin \$\tilde{\chi}\$ in gastric cancer and prognosis. [1986]

Neutrophil polymorphonuclear leukocytes (PMN) can inactivate the PMN-stastase ओ inhibitor alpha-1-antitrypsin ओ (A1AT ओ proteolytically, by using metalloproteinases normally stored as zymogens in myetoperoxidase (MPO)-negative granules. 19941

Other human serum proteins including serum albumin, alpha 1-acid glycoprotein, alpha 1-antitrypsin $\hat{\omega}$, and immunoglobulin G as well as other protease inhibitors such as leupeptin, pepatatin, phenylmethylsullonyl fluoride, and chymostatin did not affect the activity of DNA polymerase alpha 119861

IL-8 &, total neutrophil elestase & (NE &), free elastase activity, alpha 1-antitrypsin & (alpha 1-AT &), and total leukocyte and neutrophil counts were evaluated in bronchosiveolar layage fluids (BALF), [1996]

The HuH-7 human hepatoma cell line was stimulated by 14.3% and IL-6 to increase the synthesis of acute-phase proteins, e.g. serum amyloid λ^2 (SAR [7] λ^2), alpha 1 acid-proteins (ACT), alpha 1-protease inhibitor λ^2 , alpha 1 acid-glycoprotein and haptoglobin, with the exception of the pentraxins (serum amyloid P and C-reactive protein), [1993]

The amino acid sequence shows 23 to 28% homology to those of five other protease inhibitors, plasminogen activator inhibitor (PAI 2), protein C inhibitor 3 (PCI 3), alpha 1-antitypsin 3 (alpha 1-Ar 3), antithrombin III (AT III), and alpha 1-antitypsin 3 (alpha 1-AC 3), alpha 2-Pi 3 seems to be the most distantly related among these inhibitors. [1987]

The therapeutic potential of HNE a neutralising antiproteases, alpha-1-antitrypsin and etafin, in atherosclerosis, is discussed. [2008]

alpha 1-antitrypsin $\stackrel{\searrow}{\sim}$, the primary physiologic inhibitor of human leukocyte elastase $\stackrel{\searrow}{\sim}$, is proteolytically inactivated by several matrix metalloproteinases including interstitial collagenase, stromelysin and <u>92 kDa gelatinase</u> $\stackrel{\searrow}{\sim}$. [1994]

1. This cluster also includes the genes encoding alpha 1-antichymotrypsin & (AACT &) and protein C inhibitor & (PCI &), as well as an alpha 1-antitrypsin &-related sequence (ATR; gene symbol PiL). [1997]

Quantification of the functional capacity of the M3 protein as an inhibitor of neutrophil elastase & demonstrated a Kassociation for neutrophil elastase of 10.1 +/- 1.5 x 10(6) M-1 s-1, a value comparable to the common normal M1(Val213) sights 1AT & .1989.

In the pulmonary vein there was a significant increase in neutrophil expressed CD11b

(P < 0.001), neutrophil elastase

alpha 1-antitrypsin

complexes (P < 0.001), endothelin-1(P < 0.001) and thrombin-antithrombin complexes (P < 0.001) by
the end of bycass compared with pre-posertive levels. [1996]

Administration of G-CSF alone did not cause a decrease in the neutrophil elastase activity but increased plasma elastase/aloha 1-antitryosin a complex levels, [1994]

Brain tissue from five patients with superficial siderosis of the central nervous system was examined by immunocytechemistry for ferritin, gital fibrillary acidic protein $\hat{\omega}$ (GFAP $\hat{\omega}$), alpha 1-antitrypsin $\hat{\omega}$, and by lectin affinity cytochemistry with biotinylated Richaus communis agglutinin-1 (RCA-1[?]). [1988]

To translate the potential advantages of recombinant adeno-associated virus type 1 (rAAV1) vectors into a clinical application for muscle-directed gene therapy for alpha1 -antitrypsis [?] a (AAT [?] a) deficiency, we performed safety studies in 170 C57BL/6 mice and 26 New Zealand White [?] rabbits. [2007]

Pronounced immunoreactivity for ubiquitin and alpha-1-antichymotrypsin 2 could be found in all investigated tumours, while GFAP 3, neuron specific enclase, von Willebrand factor, vinentia 3, 5-100 [7] protein, alpha-1-antitrypsin 2, actin, and the neurofilaments 68 kDa and 160 kDa showed mostly weak ospitivity in some cases. [1997]

The spots were cut from the gel, and 20 were identified by mass spectrometry as charge forms of 11 plasma proteins: Orosomucoid 4, tansferrio 2, alpha-1 [7] microglobulin, zinc alpha-2 glycoprotein, alpha-1 antitrypsin 3, complement factor 8 2, haptoglobin 2, transityretin 3, plasma retinol binding protein, albumin, and hemopoxin 3, (2007)

The xanthomatous tumor cells showed immunopositivity for epithelial membrane antigen (EMA 2), vimentin 2, fatty acid synthase and several histiocytic markers (CD68 2, Ki-M1p, MAC387 2, lysozyme, alpha 1-antitrypsin 2 and alpha 1-antitrypsin 3 (2008)

Multivariate discriminant analysis and logistic regression analysis of response were performed on routine blood tests; serum levels of EEO &, iron, fermint, transferrin &, and its receptor; World Health Organization (WHO) performance status; various cytokines; neopeterin; stem cell factor; C-reactive protein; and alpha 1-antityrostin &, 1994!

Our findings are compatible with the hypothesis that major depression may be accompanied by inflammatory changes with higher levels of positive APPs (i.e., alpha 1AT **, htp **, Cp, alpha 1S) and lower levels of visceral proteins (i.e., RBP [?], Tf **, Alb). [1992]

Most of them, such as albumin, transferrin , Apo A-I, alpha 1-antitrypsin , fibrinogen beta-chain, IgG, appear to originate from plasma. [1986]

Although CRP ☆ will remain over time a useful marker, the role and implications of increased plasma concentrations of other acute phase proteins (APPs), such as alpha-1-antitrypsin ③ (A1AT ὧ), alpha-1 glycoprotein (A1GP), haptoglobin ﴿ (HG ὧ), ceruloplasmin (CP-△), and C3c and C4 complement fraction, in patients with ACS are still not completely defined. [2008]

4) The clear cells in solid areas had positive results for KL 1, alpha 1-AT 2, transferrin 2 and VIP, [1992]

In normal parotid tissue, carcinoembryonic antigen, epithelial membrane antigen, Keratin ☑, alpha 1-antitrypsin ☑, aipha 1-antichymotrypsin ☑, and S-100 [1] ☑ protein were found in all three types of ductal cells, somatostatin ☑ only in intercalated and strated ductal cells, and typezorme only in acinar and intercalated ductal cells. [19]

We elucidated four pH-dependent formation constants for the free PSA [?] with hydronium ion [H(+)], the PSA ACT (alpha 1-antichymotrypsin w), the PSA [?] w-ANG (alpha 1-protease inhibitor w), and the nonimmunoreactive PSA [?] w-ANG (alpha 1-macroglobulin) complexes, respectively, to model the stability of the free to total PSA [?] with particles. [2004]

Pretreatment and in-treatment samples (2nd and 6th weeks) were measured by enzyme-linked immunosorbent assay (ELISA) (calprotectin, lactoferrin & transferrin & leukotriene 84, prostaglandin E2, thromboxane B2 and TNF alpha) or nephelometry (alpha 1-antityosin %). (2004)

A sample of 121 Piaroa Indians from the Federal Amazonia Territory (Venezuela) was studied for the following serum protein polymorphisms: haptoglobin @ (HP_[?] @), group-specific component subtypes (C(F) orosomucoid @ (ORM @), third component of complement (C3 @), transferrin @ C subtypes (TF@) and alpha 1-antitryps in @ subtypes (P). [1993]

After the 18th week of gestation, albumin, transferrin , Factor B, glu- and lys-plasminogen, antithrombin III, Ge-globulin , alpha 1-antitrypsin , alpha 2-tB-glycoprotein , several apolipoproteins (apo A-I, A-II, A-IV, C-II, C-III, D, E, J), retinol-binding protein, transtrivertin and alpha-tel-portein with could be observed. [1993]

BAL from both pneumonia and A1AT & deficient patients, containing free neutrophil elastase [7] &, had increased cathepsin B [7] & and MMP-2 & activities compared to BAL from healthy volunteers. [2008]

Percentage neutrophil elastase & (NE &) inhibitory capacity of SAL [7] fluid was low in both A1AT & deficient subjects and a cigarette-smoking normal subject. [2003]

The positive rate of GGT II was positively correlated to the volume of PHC (r = 0.324, P less than 0.05), but even in patients with small PHC (less than or equal to 65 cm3), the positive rate of GGT II (78.6%) was higher than that of AFP [?] (50.0%) and AAT \cong (28.6%), [1990]

On the contrary, HFE & C282Y and SERPINA1 & mutations do not contribute to hepatocellular carcinoma development. [2008]

Twelve cases were analyzed by immunohistochemical methods for the presence of <u>vimentin</u> 2, dasmin 3, muscle-specific actin, myoglobin, 9-100 [?] 2 protein, alpha 1-antitrypsin 2 (AAT 2), alpha 1-antichymotrypsin 2 (ACHT), cytokeratin 2 (AET 2/AE3 2), and epithelial membrane antigen. [1990]

The PHA S.R. showed significant negative correlations with serum levels of IAP 2, IS, alpha 1-acid glycoprotein and alpha 1-antitrypsin 2, but there were no such correlations between PFC R.I. and these glycoproteins in serum. [1984]

MAIN OUTCOME MEASURES: The slides were stained with the following commercially available antibodies: CD10, CD56 &, vimentin &, alpha-1-antitryps of w, alpha-1-antitryps of w,

alpha-1-Antitrypsin 2, alpha-1-antichymotrypsin 2, actin, and myosin [?] in uterine earcomas. [1985]

Using the immunoperoxidase PAP [?] technique, a variety of soft-tissue tumors have been stained for the histiocyte markers alpha-1-antitrypsin & (A1AT &), alpha-1-antichymotrypsin & (A1ACT &) and lysozyme. [1982]

Various sialoglycoproteins like fetuin, transferrin , fibrinogen, alpha-1-antitrypsin , mucin [?] and goat-IgG are also effective in enhancing in vitro infectivity. [1987]

Overexpression of C/EBP [?]-beta in a rat yolk sac tumor cell line, AT-2-TC, increased production of AFP and other plasma proteins, including albumin, alpha-1-antitrypsin [?] >, hepatoglobin, and transferrin [?] >. [2005]

In four areas with different types of atmospheric pollution 534 children of school age were examined for serum immunoglobulins (IgG, IgA, IgM and IgE), saliva IgA (sIgA), IgNozymes (LYS) and acute phase reactants (alfa-l-antitrypsin - A1AT 27, alfa-2-macroolobulin -A2M, ceruloolasmin -CPL, stransferris 32 - TRF (19), [1990]

Other proteins which were present in very low amounts in the normal intima (transferrin 3, alpha 1-antitrypsin 3, apolipoprotein A-1, PS6, P190) were found to be major proteins of intima with fibro-fatty lesion. [1992]

Variable reactivity in lesional cells were noted for vimentin @, Alpha-1-antitrypsin @ (A1AT @), factor XIIIa, CD68 @, CD95 @, CD117 @, Alpha-1-antichymotrypsin @ (A1ACT @), CD34 @, AE1/3, S-180 [2] @ protein, EBER, CD63 @ and CD15, [2008]

METHODS: Blood endotoxin, antithrombin III (ATIII &), secretory immunoglobulin A (sigA), which was selected as a marker of cholestasis, C-reactive protein (CRP &), and alpha-1-antitrypsin & (AT &) concentrations were measured from the 20 patients undergoing curative gastrectomy for gastric cancer preoperatively and postoperatively. [2003]

Studies on alpha-1 antitrypsin \$\triangle^2\$ deficiency in white (Caucasian) COPD and non-COPD populations in 6 countries were combined to obtain estimates of the prevalence of the PIS \$\triangle^2\$ and PIZ deficiency alleles in the combined COPD and non-COPD cohorts. [2006]

CONCLUSION: Results of the present study indicate that postmenopausal women displaying the MHO phenotype also have a favorable inflammation profile as shown by lower CRP → and alpha-1 antitrypsin → levels compared with insulin → resistant women. [2005]

Tumour cells in dedifferentiated components were positive for alpha-1-antitrypsin and alpha-1-antitrypsin in all cases but one; neuron specific anotase, MB1 [?], MB2 and myosin [?] were positive with variety. [1992]

Proteins that were up-regulated in GBS included haptoglobin &, sertine/fibreonine kinase 10, alpha-f-antitrypsin &, SNC73, alpha flapschain, IgG kappa chain and cathepein D preprotein, while transferrin &, caldesmon, GALT&, human heat shock protein 70, amyloidosis patient HL [2]-heart-peptide 127aa and transthyretin & were down-regulated. [2007]

Neoplastic cells were negative for cytokeratin 2, CD79a, and CD3 and positive for CD18 [7], vimentin 3, lysozyme, and alpha-1-antitrypsin 3, most consistent with a diagnosis of histiocytic sarcoma. [2006]

Seven out of 16 and 4 out of 16 CA 125 [7] negative samples showed right positive IAP 2 and right positive CRP [7] and AL-1-AT 2 values, respectively. [1988]

GD was found to have the highest carrier frequency (1:17) followed by SE (1:23), FD (1:29), A1AT (1:65), ML4 (1:67) and FAC (1:77). [2008]

Alpha-1-antitrypsin (AAT () is a serine protease inhibitor whose deficiency could cause emphysema and liver disease and, as recently described, could be a risk factor for lung cancer development. [2006]

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